| Inde | ex ( | of ( | Clai | ms |   |
|------|------|------|------|----|---|
|      |      |      |      |    |   |
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| Application | No. |
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10/634,077

Examiner

Xiuqin Sun

Applicant(s)

SHAVERS ET AL.

Art Unit

2863

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| _ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|          |          |                | Ц              |              |              |                | 1              | ,  |              |              |    |              |          |                 |          |   |              | 1            | ш            | _ |
|----------|----------|----------------|----------------|--------------|--------------|----------------|----------------|--|--------------|--------------|----|--------------|----------|-----------------|----------|---|--------------|--------------|--------------|---|
| Cla      | aim      |                |                |              |              | Date           | 9              | _  |              |              |    | Cla          | aim      |                 |          |   | ſ            | Date         |              | _ |
|          |          |                |                |              | $\Box$       |                |                |  |              |              |    |              |          |                 | 7        |   | Ī            |              |              | Γ |
| a        | Original | 12/1/04        |                |              |              |                |                |  |              |              |    | ā            | Original |                 | ı        |   |              |              |              |   |
| Final    | į        | 21             |                |              |              |                |                |  |              |              |    | Final        | ij       |                 | ı        |   |              |              |              |   |
| -        | 0        | 1              |                |              |              |                |                |  |              |              |    |              |          |                 | ı        |   |              |              |              |   |
| -        | 1        | 1              | Н              | _            | ┝            |                |                |  |              |              |    |              | 51       | $\dashv$        | 寸        |   |              |              | П            | ┢ |
|          | 2        | Ì              | $\vdash$       | _            | Н            | $\vdash$       | $\vdash$       | Н  |              |              |    | _            | 52       | T               | 一        |   |              |              | П            | r |
| <b></b>  | 3        | 1              |                | $\vdash$     | -            |                | $\vdash$       | $\vdash$   | Н            |              |    |              | 53       | $\neg$          | _        |   |              |              | П            | r |
|          | 4        | V              |                | -            | $\vdash$     | $\vdash$       | -              | Н  |              |              |    |              | 54       | $\Box$          | ヿ        |   |              |              | П            | r |
| -        | 5        | 1              |                |              | _            |                |                | -  |              |              |    |              | 55       |                 | _        | _ |              | _            | П            | r |
|          | 6        | 7              |                | $\vdash$     |              |                | $\vdash$       | $\vdash$   |              |              |    |              | 56       |                 | $\neg$   |   |              |              |              | r |
|          | 7        | =              |                | $\vdash$     |              | _              | H              | $\vdash$   | _            |              |    |              | 57       |                 |          |   |              | $\vdash$     | П            | r |
| -        | 8        | =              |                |              |              | -              | Н              | -  | _            |              |    |              | 58       | $\dashv$        | ╗        | _ |              | $\vdash$     | Н            | r |
|          | 9        | ┰              | _              | $\vdash$     |              | _              | $\vdash$       |  | $\vdash$     |              |    |              | 59       | $\dashv$        | 一        | _ | _            | ┢            | П            | r |
| <b>—</b> | 10       | Ī              | -              | ┢            | ┢            |                | -              |  | $\vdash$     | -            |    |              | 60       | +               | $\dashv$ | _ | _            | _            |              | H |
| -        | 11       | ┢              | -              |              | H            |                | $\vdash$       | $\vdash$   | ┢            |              |    |              | 61       | $\neg$          | $\neg$   | _ |              | _            | П            | H |
| $\vdash$ | 12       | -              | $\vdash$       | -            | _            | Н              | $\vdash$       | ┢  | -            |              |    |              | 62       |                 | -        |   |              | $\vdash$     | Н            | r |
| <b>—</b> | 13       | $\vdash$       | $\vdash$       | -            | $\vdash$     | H              | $\vdash$       | $\vdash$   | $\vdash$     | <u> </u>     |    | -            | 63       | $\vdash$        | $\dashv$ | _ | $\vdash$     | $\vdash$     |              | H |
|          | 14       | $\vdash$       | <del> </del>   | <del> </del> | $\vdash$     | ┢              | -              |  |              |              |    |              | 64       | $\vdash$        | $\dashv$ | _ | -            | -            | М            | H |
| <u> </u> | 15       | $\vdash$       | -              | -            | -            | <del> </del>   | -              | $\vdash$   | -            |              |    |              | 65       | $\vdash$        | -        |   |              | $\vdash$     | М            | H |
|          | 16       | -              | H              | _            | ┢            |                | $\vdash$       | -  | Н            | _            |    |              | 66       | $\dashv$        | $\dashv$ | _ | $\vdash$     | $\vdash$     | $\vdash$     | H |
| -        | 17       |                | 1              | -            | ┢            | $\vdash$       | $\vdash$       | _  | _            |              |    |              | 67       | $\vdash$        | $\dashv$ | _ | $\vdash$     | $\vdash$     | Н            | H |
|          | 18       | ├              | -              | ⊢            |              | ┢              | _              | -  | -            | _            |    |              | 68       | -               |          | _ | $\vdash$     | ├─           | $\vdash$     | ┝ |
| -        | 19       | ⊢              | -              | ┝            | -            | -              | ┢              | _  | -            | $\vdash$     |    |              | 69       |                 |          |   | _            | ┝            | -            | ⊦ |
| -        | 20       | -              | ┝              | -            | -            | -              | -              | -  | $\vdash$     | -            |    |              | 70       | $\dashv$        |          |   |              |              | H            | ⊦ |
| -        | 21       | -              | ⊢              | -            | ├            | ┝              | <del> </del>   | ⊢  | $\vdash$     |              |    | -            | 71       | $\vdash$        |          |   | _            | ⊢            | $\vdash$     | H |
| -        | 22       | $\vdash$       | -              |              | <del> </del> | -              | -              | ⊢  | _            | -            |    | <u> </u>     | 72       | $\vdash$        | $\dashv$ |   | _            | ┝            | $\vdash$     | ⊦ |
|          |          | ⊢              | -              |              | ⊢            | -              | ⊢              | ⊢  | <u> </u>     | $\vdash$     |    | -            | 73       | H               | $\dashv$ |   |              | -            | $\vdash$     | ⊦ |
| -        | 23       | -              | ┝              | -            | <del> </del> | ⊢              |                | <u> </u>   | $\vdash$     | -            | 1  |              | 74       | H               |          |   | _            | ⊢            | ⊢            | H |
|          | 24       | -              | -              | ⊢            | ⊢            | -              | -              |  |              | _            |    | <u> </u>     | 75       | Н               | $\dashv$ |   | _            |              | ⊢            | ⊦ |
| <u> </u> | 25<br>26 | ├              | ⊢              | $\vdash$     | $\vdash$     | ⊢              | ⊢              | <del> </del>                                     | H            | ┝            |    |              | 76       | Н               | $\dashv$ | _ | $\vdash$     |              | ⊢            | H |
| -        | 27       | ├-             | ┝              | -            | ├            | ├              | _              | -  | $\vdash$     |              |    | ├            | 77       | $\vdash$        | $\dashv$ | _ | -            | -            | $\vdash$     | H |
| -        | 28       | ⊢              | ┢              | ├            | ⊢            | ⊢              | ├              | <del> </del>                                     | $\vdash$     | -            |    | -            | 78       | $\vdash$        | $\dashv$ | _ | -            | -            | $\vdash$     | H |
| -        | 29       | ┝              | -              | ┝            | ⊢            | -              |                | $\vdash$   |              |              |    | <b></b>      | 79       | $\vdash$        | $\dashv$ |   | -            |              | -            | ⊦ |
|          | 30       | ⊢              | -              | ├            | <u> </u>     | -              | ┢              | ⊢  | $\vdash$     |              |    | <del></del>  | 80       | $\vdash$        | $\dashv$ |   | -            | H            | $\vdash$     | ⊦ |
|          |          | H              |                | ⊢            |              | -              | ┢              | ⊢  | -            | ├-           |    | <b></b>      | 81       | $\vdash$        | -        |   |              | $\vdash$     | ⊢            | ⊦ |
|          | 31       | -              | -              | ⊢            | ⊢            | -              | -              | -  | ├            | $\vdash$     |    | <u> </u>     | 82       | $\vdash$        | -        | - | -            |              | $\vdash$     | ⊦ |
|          | 32       | <del> </del> — | -              | ⊢            | ⊢            |                | ├-             | ⊢  | $\vdash$     | -            | 1  |              | 83       | $\vdash$        | $\dashv$ |   | _            | ⊢            | $\vdash$     | ⊦ |
|          | 33<br>34 | ├              | $\vdash$       | $\vdash$     | $\vdash$     | $\vdash$       | -              | $\vdash$   | $\vdash$     | $\vdash$     |    | ├            | 84       | $\vdash \vdash$ | -        | - | <del> </del> | -            | <del> </del> | ⊦ |
| -        |          | -              | <del> </del> — | $\vdash$     | $\vdash$     |                | $\vdash$       | $\vdash$   |              | -            |    | <b></b> -    | 85       | $\vdash \vdash$ |          | _ | $\vdash$     | ⊢            | $\vdash$     | H |
| <u> </u> | 35       | <del>  -</del> | $\vdash$       |              | $\vdash$     | <del> </del>   | -              | <del> </del>                                     | $\vdash$     | -            | 1  | <u> </u>     | 86       | ┝╼┤             | $\dashv$ | _ | ├            | ├            | $\vdash$     | H |
| -        | 36<br>37 | -              | ├              | $\vdash$     | $\vdash$     | -              | <del>  -</del> | -  | -            | $\vdash$     | 1  | <u> </u>     | 87       | $\vdash \vdash$ | $\dashv$ | _ | $\vdash$     | $\vdash$     | $\vdash$     | H |
|          |          | -              | $\vdash$       | -            | $\vdash$     | $\vdash$       | -              | $\vdash$   | $\vdash$     | -            | {  | <del> </del> |          | $\vdash \vdash$ |          | _ | ├-           | ├            | $\vdash$     | Ͱ |
|          | 38       | -              | -              | $\vdash$     | <del> </del> | <del> </del>   |                | <del>                                     </del> | ⊢            | <del> </del> |    | ⊢–           | 88       | $\vdash \vdash$ | $\dashv$ | _ | <del> </del> | $\vdash$     | ⊢            | H |
| -        | 39       | -              | <u> </u>       | $\vdash$     | <del> </del> | <del> </del>   | ├              | $\vdash$   | $\vdash$     | <u> </u>     | ١. | ⊢-           | 89       | $\vdash \vdash$ |          | _ | <del> </del> | <del> </del> | $\vdash$     | 1 |
| <u> </u> | 40       | $\vdash$       | ⊢              | -            | <del> </del> | $\vdash$       | -              | ├-   | $\vdash$     | $\vdash$     | -  | -            | 90       | $\vdash \vdash$ |          | _ | $\vdash$     | -            | <del> </del> | H |
| <u> </u> | 41       | -              | ⊢              | $\vdash$     | ├            | <del> </del>   | $\vdash$       | $\vdash$   |              | <u> </u>     | 1  | <u> </u>     | 91       | $\vdash$        | -        |   | $\vdash$     | ⊢            | $\vdash$     | H |
| <u> </u> | 42       | $\vdash$       | -              | <u> </u>     | ⊢            | -              | <del> </del> — | ⊢  | <del> </del> | <u> </u>     | 1  |              |          | $\vdash$        | $\dashv$ |   | <del> </del> | -            | ⊢            | ┞ |
| <u> </u> | 43       | -              | ├-             | ⊢            |              | $\vdash$       | -              | $\vdash$   | $\vdash$     | <u> </u>     | 1  | <u> — </u>   | 93<br>94 | $\vdash \vdash$ | _        | _ | <u> </u>     | -            | $\vdash$     | H |
| <u> </u> | 44       | <u> </u>       | ├              |              | ├            | ⊢              | ├-             | $\vdash$   | ├-           |              |    | <u> </u>     |          | $\vdash \vdash$ |          |   | <u> </u>     | -            | ├            | ╀ |
| <u> </u> | 45       | <u> </u>       | ⊢              | $\vdash$     | ⊢            | <del> </del> — | ├-             | $\vdash$   |              | $\vdash$     | 1  | <u> </u>     | 95       | $\vdash \vdash$ | _        | _ | ⊢            | <del> </del> | ⊢            | ┞ |
| $\vdash$ | 46       | <b>—</b>       | -              | -            | <u> </u>     | $\vdash$       | <b>├</b> -     | -  |              |              | 1  | <del> </del> | 96       | $\vdash \vdash$ | -        |   | -            |              | ├            | H |
| <u> </u> | 47       | $\vdash$       | ⊢              | ┞            | ⊢            | -              | $\vdash$       | -  | ļ            | <u> </u>     | ł  | ⊢            | 97       | $\vdash \vdash$ |          | _ | <u> </u>     | $\vdash$     | ⊢            | ╀ |
|          | 48       | <b>—</b>       |                | <u> </u>     | <u> </u>     | _              | <u> </u>       | $\vdash$   | <u> </u>     | ⊢-           | ł  | ⊢            | 98       |                 |          |   | <u> </u>     | <u> </u>     | <del> </del> | L |
| <u></u>  | 49       | <u> </u>       | ┞              | <b>!</b> —   | <u> </u>     | <u> </u>       | <u> </u>       | _  | $\vdash$     | <u> </u>     | ł  | <u> — </u>   | 99       | $\sqcup$        |          |   | <u> </u>     | <b> </b> _   | ├            | 1 |
|          | 50       |                |                |              |              |                | <u> </u>       |  | Щ.           |              | J  | L            | 100      | Ш               |          |   | <u> </u>     | L            | Ц_           | L |
|          |          |                |                |              |              |                |                |  |              |              |    |              |          |                 |          |   |              |              |              |   |

| ı | Cla         | im       |          |              |  |          | ate          | }        |          |              |          |
|---|-------------|----------|----------|--------------|--|----------|--------------|----------|----------|--------------|----------|
|   | Final       | Original |          |              |  |          |              |          |          |              |          |
|   |             | 51       |          |              |  |          |              |          | $\neg$   |              |          |
|   |             | 52       |          |              |  |          |              |          |          |              |          |
|   |             | 53       |          |              |  |          |              |          |          |              |          |
|   |             | 54       |          |              |  |          |              | П        |          |              |          |
|   |             | 54<br>55 |          |              |  |          |              |          |          |              |          |
|   |             | 56       |          |              |  |          |              |          |          |              |          |
| i |             | 57       |          |              |  |          |              |          |          |              |          |
| j |             | 58       |          |              |  |          |              |          |          |              |          |
| 1 |             | 59       |          |              |  |          |              |          |          |              |          |
|   |             | 60       |          |              |  | ,        |              |          |          |              |          |
|   |             | 61       |          |              |  |          |              |          |          |              |          |
|   |             | 62       |          |              |  |          |              |          |          |              |          |
|   |             | 62<br>63 |          |              |  |          |              |          |          |              |          |
|   |             | 64       |          |              |  |          |              |          |          |              |          |
|   |             | 65       |          |              |  |          |              |          |          |              |          |
|   |             | 66       |          |              |  |          |              |          |          |              |          |
|   |             | 67       |          |              |  |          |              | Ш        |          |              |          |
|   |             | 68       |          |              |  |          |              |          |          |              |          |
|   |             | 69       |          |              |  |          |              |          |          |              |          |
|   |             | 70       |          |              |  |          |              |          |          |              |          |
|   |             | 71       |          | _            |  | _        |              |          |          |              |          |
|   |             | 72       |          |              |  |          |              |          |          |              |          |
|   |             | 73       | $\Box$   |              |  |          |              |          |          |              |          |
|   |             | 74       | _        |              |  |          | _            |          |          |              |          |
|   |             | 75       | <u> </u> | _            |  | _        | _            | _        |          |              |          |
|   |             | 76<br>77 | _        |              |  | _        |              |          |          |              |          |
|   |             | 77       | _        |              |  |          |              | $\vdash$ |          |              |          |
|   |             | 78       | _        | _            | _  | _        |              | _        | _        | _            | _        |
|   |             | 79       |          |              | _  |          | <u> </u>     | $\vdash$ |          |              |          |
|   |             | 80       | _        | _            | _  |          | _            | <u> </u> | _        | _            |          |
|   |             | 81<br>82 | _        | _            | -  | H        | ⊢            | $\vdash$ |          |              |          |
|   |             | 83       | _        | <u> </u>     | _  | Н        | _            | Н        |          |              | ┝        |
|   |             | 84       | <u> </u> | $\vdash$     | -  | $\vdash$ | <u> </u>     |          | $\vdash$ | $\vdash$     | -        |
|   |             | 85       | $\vdash$ | <del> </del> | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$ | Н        | $\vdash$     | $\vdash$ |
|   |             | 86       |          | $\vdash$     | $\vdash$   | -        | <del> </del> | $\vdash$ | -        | -            | -        |
|   |             | 87       | $\vdash$ | $\vdash$     | <del>                                     </del> | $\vdash$ | $\vdash$     | $\vdash$ | -        | <del> </del> | ┝        |
|   |             | 88       | $\vdash$ |              | $\vdash$   | $\vdash$ |              | Н        | -        | -            | $\vdash$ |
|   | -           | 89       | ⊢        | $\vdash$     | <u> </u>   | $\vdash$ | $\vdash$     | $\vdash$ | -        | $\vdash$     | $\vdash$ |
|   | <del></del> | 90       | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$     | Н        | -        | -            | -        |
|   |             | 91       | -        | ┢            | $\vdash$   | $\vdash$ | Η-           |          |          | Т            |          |
|   |             | 92       |          | $\vdash$     | $\vdash$   | Н        | $\vdash$     | П        | М        | -            |          |
|   |             | 93       | $\vdash$ |              | $\vdash$   |          | <u> </u>     |          |          |              |          |
|   |             | 94       |          | Т            | Г  |          |              | Г        | П        |              |          |
|   |             | 95       |          |              | Т  | Г        |              |          | П        | Г            | <u> </u> |
|   |             | 96       |          |              | Г  | Г        | Г            | П        |          |              | Г        |
|   |             | 97       | Г        |              |  |          |              |          |          |              | Γ        |
|   |             | 98       |          |              | Γ  |          | Г            |          |          |              | Γ        |
|   |             | 99       |          |              |  |          |              |          |          |              | Ĺ        |
|   |             | 100      |          | _            |  |          | Г            | Ι        | _        |              |          |

|  |  | Date         |          |  |          |              |              |                    |          |                |  |
|--|--|--------------|----------|--|----------|--------------|--------------|--------------------|----------|----------------|--|
| Cla  |  |              |          |  | Jate     | 3            | _            |                    | ᅴ        |                |  |
| Final  | Original                               |              |          |  |          |              |              |                    |          |                |  |
|  | 101                                    |              |          |  |          |              |              |                    |          | П              |  |
|  | 102                                    |              |          |  |          |              |              |                    |          |                |  |
|  | 103<br>104<br>105                      |              |          |  |          |              |              |                    |          | Ц              |  |
|  | 104                                    |              |          |  |          |              |              |                    |          | Ш              |  |
|  | 105                                    | _            |          |  |          |              |              |                    |          | Н              |  |
|  | 106<br>107                             | Н            | $\vdash$ |  |          | $\vdash$     | _            | _                  | _        | _              |  |
|  | 107                                    | Н            | $\vdash$ |  |          | -            |              | _                  | _        | -              |  |
|  | 108<br>109                             |              | -        | _  | _        | -            | -            | _                  |          | -              |  |
|  | 110                                    |              |          |  | _        | -            | -            | _                  |          | Н              |  |
|  | 111<br>112<br>113                      |              |          |  |          |              |              |                    |          |                |  |
|  | 112                                    |              |          |  |          |              |              |                    |          |                |  |
|  | 113                                    |              |          |  |          |              |              |                    |          |                |  |
|  | 114<br>115                             |              |          |  |          |              | L            |                    |          | Ш              |  |
|  | 115                                    | Ш            | L        | Щ  |          | <u> </u>     | dash         | _                  | L        | Щ              |  |
|  | 116<br>117                             | -            | <u> </u> | $\vdash$   |          | -            | <u> </u>     | _                  | <u> </u> | Н              |  |
|  | 118                                    | H            |          |  |          | $\vdash$     | <u> </u>     |                    |          | Н              |  |
|  | 110                                    | H            | H        |  |          | <del> </del> | <del> </del> |                    |          | Н              |  |
|  | 119<br>120<br>121                      |              | -        |  | _        | -            | -            | _                  | $\vdash$ | Н              |  |
|  | 121                                    | -            | -        |  |          | $\vdash$     | _            |                    | $\vdash$ | Н              |  |
|  | 122                                    |              |          |  |          |              |              |                    | Г        | П              |  |
|  | 122<br>123                             |              |          |  |          |              |              |                    |          |                |  |
|  | 124                                    |              |          |  |          |              |              |                    |          | Ш              |  |
|  | 125                                    | _            | _        | L  | _        | L            | <u> </u>     |                    |          | Ц              |  |
|  | 126                                    | ļ            | <u> </u> | _  | _        | ļ            | <u> </u>     |                    | _        | Н              |  |
| <u> </u>   | 124<br>125<br>126<br>127<br>128<br>129 |              | H        | -  | <u> </u> |              | ⊢            |                    | $\vdash$ | $\vdash$       |  |
| _  | 120                                    | $\vdash$     | $\vdash$ | $\vdash$   | ⊢        | $\vdash$     | ⊢            | -                  | -        | Н              |  |
|  | 130                                    | -            | $\vdash$ | ⊢  | ┝        | ⊢            | ⊢            | _                  | $\vdash$ | Н              |  |
| <del>                                     </del> | 130<br>131                             | $\vdash$     |          | $\vdash$   | $\vdash$ | ┢            | -            | _                  | -        | Н              |  |
|  | 132                                    |              |          | ┢  | ┪        | ┢            | $\vdash$     |                    |          | Н              |  |
|  | 133                                    | Г            |          |  |          |              |              | Г                  |          | П              |  |
|  | 133<br>134                             |              |          |  |          |              |              |                    |          |                |  |
|  | 135                                    |              | $\Box$   |  | $\Box$   |              |              |                    |          |                |  |
|  | 136                                    | _            | _        | _  | _        | <u> </u>     |              | L                  | _        | Ш              |  |
|  | 137                                    | <u> </u>     | <u> </u> | $\vdash$   | <u> </u> | _            | _            | <u> </u>           | <u> </u> | Н              |  |
| <del> </del>                                     | 138<br>139                             |              | -        |  | <u> </u> | _            | -            | $\vdash$           | -        | Н              |  |
| ļ  | 140                                    | $\vdash$     | $\vdash$ | ├  | ⊢        | -            | $\vdash$     | $\vdash$           | -        | $\vdash$       |  |
| <del></del>                                      | 141                                    | $\vdash$     | ├-       | $\vdash$   | $\vdash$ | -            | -            |                    | $\vdash$ | Н              |  |
|  | 142                                    | $\vdash$     | $\vdash$ | <del>                                     </del> | ┢        | _            | -            |                    |          | H              |  |
| <b>-</b>   | 143                                    | Г            | Г        |  |          | Г            | $\vdash$     | T                  |          | П              |  |
|  | 144                                    |              |          |  |          |              |              |                    |          |                |  |
|  | 145                                    |              |          |  |          |              |              |                    |          |                |  |
|  | 146                                    |              |          |  | <u> </u> | Ĺ            | _            | $oxedsymbol{oxed}$ |          | $\Box$         |  |
| <u> </u>   | 147                                    |              | _        | _  | L        | <u> </u>     | <u> </u>     | <u> </u>           | _        | Ш              |  |
|  | 148                                    | <u> </u>     | -        | $\vdash$   | ⊢        | <u> </u>     | _            | ⊢                  | ⊢        | Н              |  |
|  | 149                                    | <del> </del> | $\vdash$ |  | -        | $\vdash$     | $\vdash$     | ⊢                  | -        | $\vdash\vdash$ |  |
| L  | 150                                    | <u> </u>     | <u> </u> |  |          |              |              | <u> </u>           | Ц.       | ш              |  |